Welcome to ITEP's Tribal Climate Change Newsletter. This monthly newsletter provides news items, resources, announcements about funding opportunities, conferences, and training, and other information relevant to tribal climate change issues.

ITEP's Climate Change Program News

Northern Arizona: Mount Elden on a winter day in March
Photo credit: Leanna Begay

Ya'at'eeh!

We hope everyone is enjoying some winter precipitation! This year has been a dry winter here in Northern Arizona. We need the moisture!

We are excited to introduce our new Program Coordinator, Leanna Begay, who joined ITEP's Tribal Climate Change Program on February 26 after several years with the Navajo Nation's Department of Fish and Wildlife. Click on the following link http://www7.nau.edu/itep/main/About/staff_LBegay to read more about Leanna!

We have been busy preparing for several upcoming events such as the National Tribal Forum (NTF) on Air Quality to be held May 14-17, 2018 in Carlton, MN. Click here to view more information related to this conference http://www7.nau.edu/itep/main/Conferences/confir_ntf. Online registration is now open for this event. We hope to see you there!

Many of you are curious about our upcoming Climate Change Adaptation Planning courses and although we have yet to list them on our website, we will post the dates soon. Currently, we are in the process of planning trainings in Alaska (June 05-07), Southeast, (date TBD), and San Diego, CA (August 07-09, location TBD). In addition, in the next couple of weeks, we are going to debut the application for our advanced course titled, "CC 201: Facilitated Cohort: Climate Change Adaptation Strategic Planning Course" which will focus on tribal cohorts working through the entire process of their strategic plan.

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Newsletter
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Tribes & Climate Change website
For more on tribes and climate change issues, visit ITEP’s Tribes & Climate Change website at www7.nau.edu/itep/main/tcc/
climate change adaptation plans while focusing on a particular topic. Stay tuned!

As previously mentioned in January's newsletter, we'd love to feature your photograph of your people, lands and resources. Please share with us via email with a short caption and who we should credit. This newsletter is viewed by people all over the world, and we would love to showcase pics from your neck of the woods.

We look forward to seeing you soon!

-Nikki, Karen, Colleen, Leanna & Adrian

**In The News**

One Plant Has the Ability to Help Us Understand Climate Change

- The humble sunflower appears not quite of this earth. Its yellow crowned head sits atop its stalk like a green broomstick. Its seeds, arranged in a logarithmic spiral, are produced by tiny flowers called disc florets that emerge from the center of its head and radiate outward. But aside from being a biological marvel, the sunflower is also often in the scientific spotlight. © Quartz Media, 2018, 03/13/2018. [https://qz.com/1227435/one-plant-has-the-ability-to-help-us-understand-climate-change/](https://qz.com/1227435/one-plant-has-the-ability-to-help-us-understand-climate-change/)

Feeling It: UW Bothell Class Helps Students Face Emotional Impact of A Warming Planet

- A popular new class on climate change at the University of Washington Bothell tackles the emotional dimensions of a warming planet, helping students develop personal resources to deal with a lifetime of witnessing environmental losses. © The Seattle Times, 2018, 03/13/2018. [https://www.seattletimes.com/seattle-news/education/feeling-it-uw-bothell-class-helps-students-face-emotional-impact-of-a-warming-planet/](https://www.seattletimes.com/seattle-news/education/feeling-it-uw-bothell-class-helps-students-face-emotional-impact-of-a-warming-planet/)

Climate Change Forces Quinault Tribe to Seek Higher Ground

- The tribe has taken the lead against local projects like oil terminals that would further climate change and threaten its existence. © Earth Justice, 2018, 03/12/2018. [https://earthjustice.org/blog/2018-march/climate-change-forces-the-quinault-tribe-to-seek-higher-ground](https://earthjustice.org/blog/2018-march/climate-change-forces-the-quinault-tribe-to-seek-higher-ground)

Arctic Has Warmest Winter on Record

- The Arctic winter comes and goes — but ever so differently as warming trends prevail. Increasing temperatures and glacial caving continue as Mother Nature gets hotter — at the top of our world as elsewhere. © CleanTechnica, 2018, 03/10/2018. [https://cleantechnica.com/2018/03/10/arctic-warmest-winter-record/](https://cleantechnica.com/2018/03/10/arctic-warmest-winter-record/)

Biodiversity Sector Must Acknowledge Traditional Knowledge Holders

- Environmental Affairs Minister Dr. Edna Molewa says transformation of the biodiversity sector is a necessity in a changing world. “This is more so in the context of South Africa, where policies of the past were exclusionary, thus depriving the majority of our people from actively participating in sectors of the economy,” Molewa said. © Bizcommunity, 2018, 03/09/2018. [http://www.bizcommunity.com/Article/196/356/174598.html](http://www.bizcommunity.com/Article/196/356/174598.html)

EXCLUSIVE: Louisiana Finalizing Landmark Multi-Use Land Purchase To Relocate Climate Change Refugees


Scientists Confirm Traditional Knowledge Regarding Seal Pup Migration

- In the late 1800s, the U.S. Secretary of the Treasury sent Captain C. L. Hooper to the Pribilof Islands to learn as much as he could about the northern fur seal from the Alaska Native people who lived there. At the time, the fur trade was big business. One of the lessons he recorded was that the seals are known to travel with the wind when possible. Now scientists have the data to back up that traditional knowledge. © Alaska Public Media, 2018, 03/02/2018. [https://www.alaskapublic.org/2018/03/01/scientists-confirm-traditional-knowledge-regarding-seal-pup-migration/](https://www.alaskapublic.org/2018/03/01/scientists-confirm-traditional-knowledge-regarding-seal-pup-migration/)
Here's What the EPA's Website Looks Like After a Year of Climate Change Censorship

➢ Throughout the Trump administration’s first year in office, the Environmental Protection Agency has been quietly scrubbing mentions of climate change and tweaking related language on its website – an effort critics have decried as scientific censorship. © TIME, 2018, 03/02/2018. http://time.com/5075265/epa-website-climate-change-censorship/

Educational and Youth Engagement Opportunities

South Central Climate Science Center’s Summer Undergraduate Internship for Underrepresented Minorities

★ The South Central Climate Science Center is offering summer undergraduate internships to students of underrepresented minorities interested in STEM and passionate about climate change. Interns will be involved in hands-on activities and mini-projects related to climate research that will allow them to see the direct impacts of climate variability and change across the country. As part of the internship, interns will travel across the south-central United States to visit university campuses and field locations. The internship dates are July 8-28, 2018, and all meals and lodging will be provided, as well as a $200 weekly stipend. Deadline to apply is March 16, 2018 at 5:00 p.m. Central Time. https://docs.google.com/forms/d/e/1FAIpQLSdTrQC5371kb16c-YcD-ChLvYxms9yjKu5K6aQe99r74oPEv5g/viewform?ct=t&gid=0&entry_z=0

InsideClimate News: Intensive Three-Week Program Open to High School Students and Recent Graduates

★ InsideClimate News proudly announces the launching of the Institute for Environmental Journalism this summer in New York City. The intensive three-week program is open to high school students and recent graduates and will take place July 9-27. If you know a motivated and curious teen who wants to learn reporting from award-winning journalists, please encourage them to apply, they are currently accepting applications. The Institute is one part of a major undertaking InsideClimate News is doing to revive and embolden environmental journalism across the country. For more information visit their website at https://insideclimatenews.org/institute-for-environmental-journalism.

University of Arizona School of Geography & Development

★ Doctoral candidate, Mona Arora is conducting a survey to understand the needs and challenges public health professionals face in addressing the health implications of climate change. One of the main objectives of this project is to understand the factors that limit or enhance the usability of climate change information for public health decision-making. She is recruiting professionals who work in the field of public health at the:

a. Federal, state, tribal, territorial, municipal or county public health department, other government agency OR in a non-profit public health organization AND

b. Are interested or engaged in addressing the public health impacts of climate change AND

c. Be fluent in written and spoken English.

This study has been approved by the University of Arizona Institutional Review Board. If you decide to participate, you will be requested to complete a 15-20 minute, anonymous, online survey. The survey can be completed via computer or mobile device and will encompass completing a series of questions revolving, broadly, around your professional role(s), experience on this issue, and your perception of needs and preferences for obtaining climate change and health-associated information. After survey completion, you will also be requested to participate in an optional, 1-hour interview to be scheduled at a date and time convenient for you. Your input will be instrumental in enhancing the understanding of this issue and ultimately informing the development of decision support tools that enable public health decision making. Participation in this study is entirely voluntary and there are no direct benefits that arise from participating. You may withdraw from the study at any time. If you choose to participate in the study, please click on the following link: Begin Survey Or, please copy and paste the following web address to your browser: https://uir.arizona.co1.qualtrics.com/jfe/form/SV_3mT4yT16u9aSrBL. Please do not hesitate to contact her via phone at (520)-626-0612 or (520)-440-2996, or via e-mail at manand@email.arizona.edu.

SC CSC: 2018 Early Career Researcher Professional Development Training

★ We are pleased to announce our third Early Career Researcher Professional Development Training designed for graduate students, postdocs, and early career researchers (i.e., graduated within the last 5 years) from any discipline conducting climate-related research with relevance to the south-central U.S. (i.e. New Mexico, Texas, Oklahoma, Louisiana, or Texas/Louisiana coast). https://docs.google.com/forms/d/e/1FAIpQLSfAvmlZpVncBuDrRQtMNlzwLI46ZxyhN3DgqJREItwODU3YUYQ/viewform
Other Items of Interest

National Indian Health Board
Application Deadline: April 6, 2018
♦ The National Indian Health Board (NIHB) is pleased to announce that applications for the 2018 Tribal Youth Health Policy Fellowship are now open! The National Indian Health Board's second cohort of Fellows will consist of 12 Native youth from around the country to engage throughout the year in Indian health policy and programming efforts. The Fellows will engage in Indian health policy solutions, tell their personal story, and advocate for changes in the healthcare and public health systems important to their Tribal communities. https://docs.google.com/forms/d/1Y-FPyyEjVQpscSiVCIvDk1iwMn8wVXoMsPok6-mV4/viewform?edit_requested=true

SW CSC Tribal Climate Science Liaison
Application Deadline: April 16, 2018
♦ The Southwest Climate Science Center is seeking a Tribal Climate Science Liaison. This full-time, professional position will provide direct extension support to Tribes and Tribal colleges located in Arizona, Colorado, Nevada and California, the states comprising the service area of the Department of the Interior Southwest Climate Science Center (SW CSC), located on the campus of the University of Arizona in Tucson, AZ. The position will work with the SW CSC to support Tribal governments, schools and communities interested in learning about and conducting climate resilience planning and implementation. Tribal community-based activities to be supported by the climate science liaison include outreach/engagement, education and research associated with mobilizing community response to the environmental, health, and safety impacts of climate change. PLEASE NOTE: This is a one-year grant-funded position. Continuation beyond one year is contingent upon availability of funds. Application Link: http://www.swcsc.arizona.edu/news/2018/03/job-announcement-tribal-climate-science-liaison-sw-csc

BIA Tribal Resiliency Program
♦ TRP Brochure: The Bureau of Indian Affairs (BIA) Tribal Resilience Program (TRP) supports tribal resilience and ocean and coastal management to assist Tribes to better prepare for extreme events and address harmful trends that impact tribal treaty and trust resources, economies, infrastructure, and human health and safety. The TRP provides grant funding, resilience training, and technical support services in coordination with other federal, tribal, and state partners to support tribes in building cooperative solutions through improved access to resources, training, and tools. https://www.indianaffairs.gov/sites/bia.gov/files/assets/bia/ots/tcrp/BIATRPBrochure.pdf

♦ Youth Brochure: The Bureau of Indian Affairs (BIA) Tribal Resilience Program (TRP) assists Tribes and staff to build resilience to meet pressing, complex challenges that Indian Country and Alaska Native Villages must face. Youth are the next generation of tribal leaders who must confront the challenges posed by environmental change. The resources provided here are for youth, youth leaders, and teachers interested in helping tribal communities build resilience through the next generation. https://www.indianaffairs.gov/sites/bia.gov/files/assets/bia/ots/tcrp/BIAYouthBrochure.pdf

UC and Its National Labs Invest in California Climate Change Research
♦ Three new, large-scale research projects studying the effects of climate change on California are getting underway, thanks to over $11 million in awards resulting from the University of California’s close ties with its national laboratories. © University of California, 2018, 03/13/2018. https://www.universityofcalifornia.edu/news/uc-and-national-labs-invest-california-climate-change-research

Climate Change and Looters Threaten the Archaeology of Mongolia

Ice Patch Archeology
♦ Ice patch discoveries provide an amazing way to capture public interest and to integrate education about archaeology and Native American cultures with ancient and modern climate. This video provides a brief overview of more than a decade’s worth of investigation into the archaeology of alpine snow and ice in the Greater Yellowstone and the effects of climate change on archaeological resources. It was made by Montana PBS and the Institute of Arctic and Alpine Research (INSTAAR) with support from the USDA Forest Service’s Region 1 Heritage Stewardship Enhancement Program. The target audience includes all of the citizens of Montana, but it will be of interest to all of the citizens of the Greater Yellowstone Ecosystem / Greater Yellowstone Area (Montana, Idaho,
Wyoming) as well as to people living elsewhere in the Rocky Mountains or other areas with alpine snow and ice in North America and around the world. Thank you for your interest. © Glacier National Park, 2018, 03/13/2018. 
https://vimeo.com/252583882

Pacific Climate Change Conference Highlights Efforts to Reduce Emissions, Increase Resilience


Funding Opportunities

NOTE: More Funding Opportunities can be found at the Tribes & Climate Change website: http://www7.nau.edu/itep/main/tcc/Resources/funding. Also, see the Tribal Climate Change Guide maintained by the Pacific Northwest Tribal Climate Change Project at the Univ. of Oregon: http://tribalclimateguide.uoregon.edu

Environmental Literacy Grants: Supporting the Education of K-12 Students and the Public for Community Resilience (DOC)

✔ The goal of this Federal Funding Opportunity (FFO) is to support the education of K-12 students and the public so they are knowledgeable of the ways in which their community can become more resilient to extreme weather events and/or other environmental hazards, and become involved in achieving that resilience. Many U.S. communities are increasingly contending with issues related to preventing, withstand, and recovering from disruptions caused by extreme weather and other environmental hazards (U.S. DOC FY2014-FY2018 Strategic Plan). These hazards include but are not limited to severe storms, tornadoes, hurricanes, flooding, heavy precipitation events, persistent drought, heat waves, increased global temperatures, acidification of the ocean, and sea level rise. Funding opportunity #: NOAA-SEC-OED-2018-2005455 Eligibility includes Indian tribal governments. Deadline: 04/06/2018. https://www.grants.gov/web/grants/search-grants.html

EPA Solicits Applications for Grants to Provide Businesses with Pollution Prevention Technical Assistance and Training (EPA)

✔ EPA is calling for grant proposals from state and tribal agencies, universities, colleges and other organizations to provide pollution prevention (P2) technical assistance or training to businesses. These two-year projects are expected to be performed in each EPA region. Funding opportunity: EPA-HQ-OPPT-2018-001. Deadline: 04/26/2018. www.epa.gov/p2/grant-programs-pollution-prevention

Paleo Perspectives on Climate Change (NSF)

✔ The goal of research funded under the interdisciplinary P2C2 solicitation is to utilize key geological, chemical, atmospheric (gas in ice cores), and biological records of climate system variability to provide insights into the mechanisms and rate of change that characterized Earth's past climate variability, the sensitivity of Earth's climate system to changes in forcing, and the response of key components of the Earth system to these changes. Funding opportunity #: 17-582. Eligibility is unrestricted. Deadline: 10/22/18. https://www.grants.gov/web/grants/search-grants.html

Upcoming Events

NOTE: More Upcoming Events can be found at the Tribes & Climate Change website: http://www7.nau.edu/itep/main/tcc/Home/Events

March

Webinar Series: Managing Floodplains Expectations on the Missouri River
March 7, 3:30 p.m. (EDT). Offered by the NE CSC. Robert Jacobson of the USGS will talk about a recently completed NE CSC-funded project. The team on the project (“Science to Inform Management of Floodplain Conservation Lands under Non-Stationary Conditions”) worked with floodplain managers to identify the information most needed to understand non stationary conditions, and to develop tools they can apply to conservation lands to improve decision making. https://necsc.umass.edu/webinars/managing-floodplain-expectations-missouri-river

Conference: Annual Tribal Water in the Southwest Conference
March 8-9, Laveen, AZ. Offered by Law Seminars International. You will hear in-depth insights and updates, as well as valuable tips and strategies for Tribal water issues from the distinguished panel. https://necsc.umass.edu/webinars/annual-tribal-water-southwest-conference
Conference Call: Quarterly Tribal Engagement Call: South Central CSC
March 15, 3:00 p.m. (Central). Offered by the SC CSC. This call is to promote open communication between all federal agency members in the South Central Region who work with tribes and climate change. The call will also allow all federal agency workers in the region who work with tribes and climate change to be aware of the projects we are all working on as to increase the diversity of our projects and to prevent any redundancy of projects. To connect, dial 405-325-6688, enter 7444677# and follow the voice prompts. Contact April Taylor at April.Taylor@Chickasaw.net for questions.

Workshop: National Cohesive Wildland Fire Management Strategy Workshop
March 28-29, Reno, NV. Offered by the International Association of Wildland Fire. The workshop will focus on building capacity in practitioners, improving preparedness to meet challenges, and to provide opportunities to learn from past experiences. [http://www.nawfonline.org/2nd_CohesiveStrategyWorkshop2018/](http://www.nawfonline.org/2nd_CohesiveStrategyWorkshop2018/)

Webinar Series: Engaging Stakeholders in Climate Adaptation
March 28, 3:30-4:30 p.m. (EDT). Offered by the NE CSC. Speakers include Drs. Ambarish Karmalkar, Ridwan Siddique, Richard Palmer, Ray Bradley and Rob Deconto who engaged with the Massachusetts Executive Office of Energy and Environmental Affairs, including the NE CSC to collaboratively develop models and information that can be used to inform planners, managers, and the general public about the likely impacts of climate change. [https://necsc.umass.edu/webinars/impacts-climate-change-massachusetts-science-support-state-policy](https://necsc.umass.edu/webinars/impacts-climate-change-massachusetts-science-support-state-policy)

Webinar Series: From Science to Action: Evidence-Based Programs for Nature & Health Communities
March 28, 10-11 a.m. (PDT). Offered by the CA LCC. Webinar will feature Dr. Kathleen Wolf of the University of Washington. Research on nature and human health responses has led to the development of many community-based, outdoor programs to promote human wellness. This webinar will highlight examples of nature and health programs. [http://www.conservationwebinars.net/webinars/from-science-to-action-evidence-based-programs-for-nature-and-health-communities/?searchterm=None](http://www.conservationwebinars.net/webinars/from-science-to-action-evidence-based-programs-for-nature-and-health-communities/?searchterm=None)

Webinar: California's Renewable Energy Landscapes
March 29, 10-11AM (PDT). Offered by the CA LCC. Webinar will feature Kai Forester, Conservation Biology Institute. Come explore “California’s Renewable Energy Landscapes”! This geospatial data portal allows users to access the science, assessments, and data that support a vision for California’s transition to clean energy, without sacrificing conservation values. [https://consbio.org/newsroom/events/californias-renewable-energy-landscapes](https://consbio.org/newsroom/events/californias-renewable-energy-landscapes)

Workshop: Partner Workshop for the Eastern Mojave Landscape Conservation Design
April 10-11, Las Vegas, NV. Offered by the Eastern Mojave Landscape Conservation Collaborative. This workshop will bring partners together to develop goals and priorities for conservation, identify management actions that can address stressors to important ecosystems, and work on immediate opportunities for collaboration. [https://docs.google.com/forms/d/e/1FAIpQLSe6byZgl53aVvQQVEwaplApsXZRlvRlxUMVK3rB7_YspMbiLQ/viewform](https://docs.google.com/forms/d/e/1FAIpQLSe6byZgl53aVvQQVEwaplApsXZRlvRlxUMVK3rB7_YspMbiLQ/viewform)

Conference: 8th Tribal Land Staff National Conference

Conference: 6th Annual Rising Voices: Collaborative Science With Indigenous Knowledge for Climate Solutions
April 11-13, Duluth, MN. Offered by the National Center for Atmospheric Research. The theme of the workshops is “Rising Together: Mobilizing Learning from Local to Global.” Meeting objectives include 1) review what we have learned from previous Rising Voices gatherings, 2) mobilize diverse knowledge systems towards appropriate climate solutions, and 3) learn from local partners and actions in the Great Lakes area. [https://risingvoices.ucar.edu/](https://risingvoices.ucar.edu/)

Webinar: Quantifying Variability in Fish Populations Due to Climate Change & Implications for Management
April 11, 3:30-4:30 p.m. (EDT). Offered by the NE CSC. Speaker, Tiffany Vidal, will talk about the following: the number of fish collected in routine monitoring surveys often varies from year to year, from lake to lake, and from location to location within a lake. [https://necsc.umass.edu/webinars/quantifying-variability-fish-populations-due-climate-change-and-implications-management](https://necsc.umass.edu/webinars/quantifying-variability-fish-populations-due-climate-change-and-implications-management)
Webinar: From Identifying to Integrating Stakeholder Preferences in Design of Conversation Plans for Adaptation to Climate Change
April 18, 3:30-4:30 p.m. (EDT). Offered by the NE CSC. Webinar will feature Meghna Barbbar-Sebens and Ajay Singh.
https://necsc.umass.edu/webinars/identifying-integrating-stakeholder-preferences-design-conservation-plans-adaptation

Webinar: NOAA’s Regional Climate Services Program: Regional Activities in the East
April 25, 3:30-4:30 p.m. (EDT). Offered by the NE CSC. Featured speakers include Ellen Mecray and Arthur DeGaetano.
https://necsc.umass.edu/webinars/noaas-regional-climate-services-program-regional-activities-east

Conference: 2018 Local Solutions: Eastern Climate Preparedness Conference
April 30-May 02, Manchester, NH. Offered by the Antioch University Center for Climate Preparedness & Community Resilience. This conference will cover a range of climate preparedness and resiliency issues such as: sea level rise, urban heat, and both coastal and inland flooding issues.

May

Conference: California Society for Ecological Restoration Conference
May 9-11, 2018, San Diego, CA. Join SER CAL for their 25th annual conference. Presentations topics include:
  o Adaptive Management: Building Resiliency in a Changing Environment
  o Native Habitat Design and Restoration in Rapidly Changing Environments
  o Urban Forestry Management in a Changing Environment
http://www.sercal.org/links-conference-timeline/

ITEP Conference: National Tribal Forum on Air Quality (NTF)
May 14-17, Carlton, MN. This conference provides environmental professionals from tribes, EPA, and other organizations an opportunity to meet and discuss current policies, regulatory initiatives, and technical topics in air quality. Made possible by funding from the U.S. EPA and generous sponsors.
http://www7.nau.edu/itep/main/Conferences/confr_ntf

Training: Adaptation: Planning & Tools (ALC3916)
May 14-18, Shepherdstown, WV. Offered by the National Conservation Training Center. This five day class will provide participants skills and tools needed to demystify climate adaptation for application to on-the-ground conservation. https://training.fws.gov/

Conference: 17th Annual “To Bridge a Gap” Meeting
May 21-25, Tulsa, OK. Offered by the Muscogee Nation & USDA Forest Service. Registration and hotel information coming soon. Contact Lexie Rue-Harris at 479-414-8576 with more questions.

May 21-24, Missoula, MT. Offered by the Association for Fire Ecology & International Association of Wildland Fire. This conference is designed around these fire management continuums.
http://firecontinuumconference.org/

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